

Abstract

Pseudoplastic aqueous dispersions comprising particles (P) which are solid and/or of high viscosity, are dimensionally stable under storage and application conditions, are in dispersion in a continuous aqueous phase (W), and comprise surface-modified nanoparticles (N) whose surface is covered fully or almost fully by

- (G1) modifying groups which
- are attached covalently to the surface via functional linker groups (a) and
 - comprise inert spacer groups (b) and
 - comprise functional reactive groups (c) which are attached via the groups (b) to the groups (a) and are inert toward the functional reactive groups of the surface to be modified, and

- (G2) modifying groups which
- are attached to the surface via functional linker groups (a) containing at least one silicon atom,
 - comprise inert groups (e), and
 - have a smaller hydrodynamic volume V_H than the modifying groups (G1);

processes for preparing them, and their use.